

INCH-POUND  
 MS25917F  
 27 November 2003  
 SUPERSEDING  
 MS25917D  
 14 February 2001

DETAIL SPECIFICATION SHEET

RELAYS, ELECTROMAGNETIC,  
 3 AMPERES, 4 PDT, TYPE I

INACTIVE FOR NEW DESIGN AFTER  
 2 MARCH 1987. NO SUPERSEDING STANDARD.

This specification is approved for use by all Departments  
 and Agencies of the Department of Defense.

The requirements for acquiring the relay described herein shall  
 consist of this specification and the latest issue of MIL-PRF-6106.

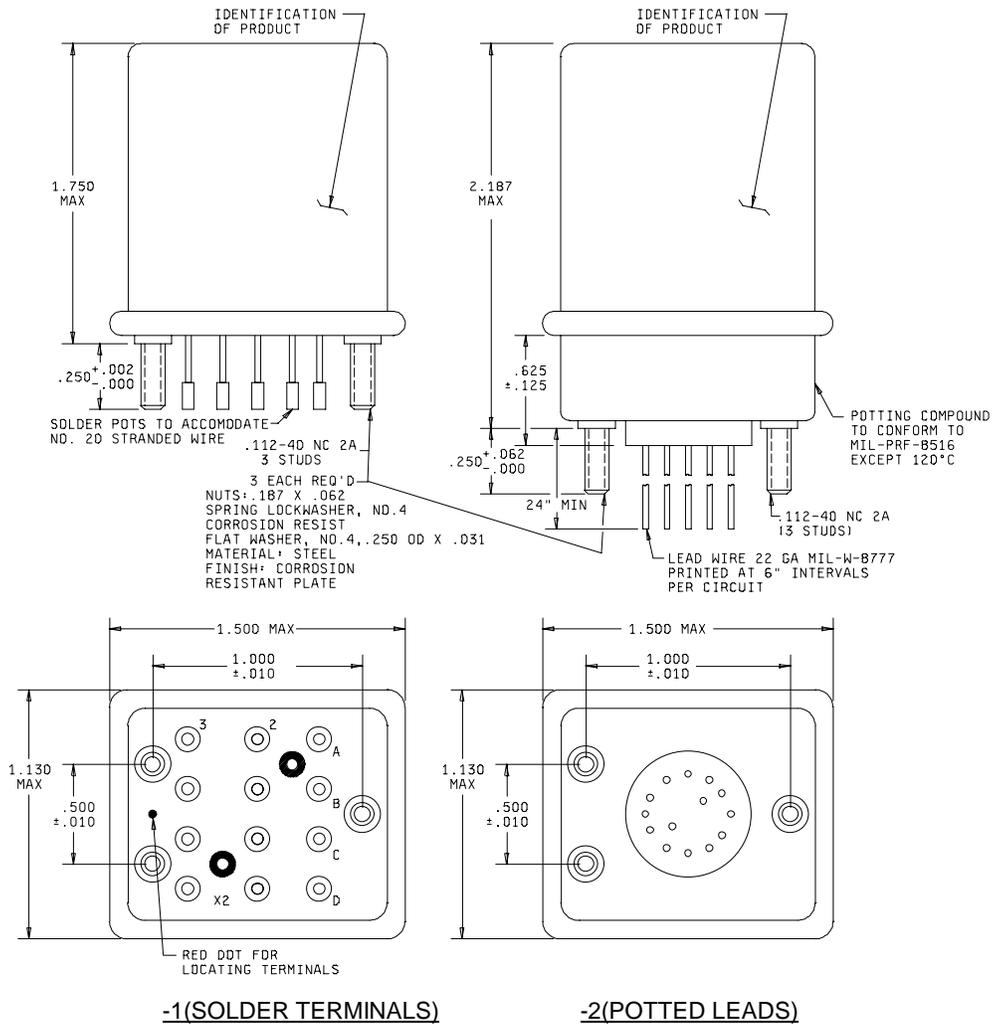
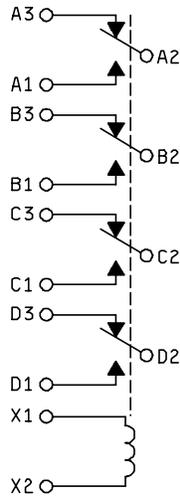
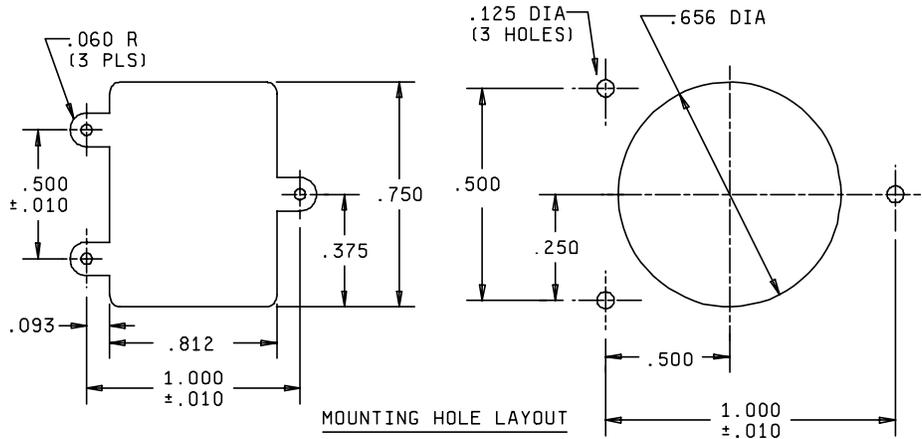


FIGURE 1. Dimensions and configurations.

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Inches	mm	Inches	mm
.002	0.05	.656	16.66
.010	0.25	.750	19.05
.060	1.52	.812	20.62
.062	1.57	1.000	25.40
.093	2.36	1.130	28.70
.112	2.84	1.500	38.10
.125	3.18	1.750	44.45
.250	6.35	2.187	55.55
.375	9.53	6.000	152.40
.500	12.70	24.000	609.60
.625	15.88		

CIRCUIT DIAGRAM

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Terminal numbers do not appear on the relay header. There shall be affixed to the relay a suitable legible circuit diagram that identifies each terminal location specified. Circuit diagram shown above is the terminal view.
4. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
5. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standard (DoDISS) specified in the solicitation form a part of this standard to the extent specified herein.
6. For details see table I.
7. Unless otherwise specified, tolerance is  $\pm .010$  (0.25 mm).

FIGURE 1. Dimensions and configurations - Continued.

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## REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: -1 .25 pounds (113 grams).

-2 .50 pounds (227 grams).

## Contact requirements:

## Load ratings:

High level (relay case grounded).

Resistive: 3 amperes at 28 V dc, 115 V ac (400 Hz).

Inductive: 1.5 amperes at 28 V dc, 115 V ac (400 Hz).

Motor: 1.5 amperes at 28 V dc, 115 V ac (400 Hz).

Mixed loads: Applicable.

## Coil requirements:

Nominal coil voltage: 28 V dc.

Pick up voltage: 18 V dc (over the temperature range).

Hold voltage: 7.0 V dc (over the temperature range).

Dropout voltage: 1.5 V dc (over the temperature range).

Coil current: 0.15 ampere maximum.

## Electrical requirements:

## Insulation resistance (minimum):

Initial: 100 megohms.

After life or environmental test: 50 megohms.

## Dielectric strength:

	Sea level (V rms)		Altitude (V rms)	
	Initial	After life	80,000 feet	
			-1	-2
Coil to case:	1,000	1,000	250	500
All of the points:	1,250	1,000	250	500

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### Environmental requirements:

Temperature range: -65°C to +120°C.

Life test requirements 50, 000 cycles minimum.

Qualification by similarity: See MIL-PRF-6106.

Group B and Group C inspections are not applicable.

Group A acceptance reports shall be submitted to the qualifying activity on a yearly basis in order to retain qualification for this detail specification sheet.

Part or identifying number: (PIN): MS25917-1 for solder terminals or MS25917-2 for potted leads.

### NOTES

Referenced documents. In addition to MIL-PRF-6106, this specification sheet references the following documents. (Government documents are available on line at <http://assist.daps.dla.mil/quicksearch> or [www.dodssp.daps.mil](http://www.dodssp.daps.mil) or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

### SPECIFICATIONS

#### Department of Defense

- |              |  |
|--------------|--|
| MIL-PRF-8516 | - Sealing Compound, Synthetic Rubber, Electric Connectors and Electric Systems, Chemically Cured |
| MIL-DTL-8777 | - Wire, Electrical, Silicone-Insulated, Copper, 600-Volt, 200 Deg. C                             |

Custodian:  
Navy - AS  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5945-1214-17)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at [www.dodssp.daps.mil](http://www.dodssp.daps.mil).